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Formation and Evaluation of Anti-aging herbal cream containing *Pistia stratiotes* Leaf Extract

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ABSTRACT:

Ageing is a natural phenomenon that is based on our age. As we grow older, the ageing sign appears. Ageing is the most common problem in the present era. Signs of ageing appear at an early age and cause wrinkles, pigmentation, elasticity loss, dryness, and roughness because of a bad lifestyle and diet, mainly associated with UV rays. There are numerous chemical-based formulations available on the market for the protection of early ageing symptoms as well as UV protection. But chemical-based formulations have many adverse effects, so demand for natural sources is increasing because natural agents don't cause severe effects on our skin and also help to reduce signs of aging. The purpose of this study is to make an anti-aging cream with *Pistia stratiotes* leaf extract and determine how much radical-scavenging activity is present in the ethanolic leaf extract using the DPPH method. The potential of the plant extracts as antioxidants. We evaluated the formulation using a variety of criteria, including pH, spreadability, stability, good consistency, homogeneity, and appearance. This herbal cream is safer and more stable. In summary, the application of an herbal cream with antioxidant properties can serve as a protective layer to prevent skin ageing.

Keywords: Aging, DPPH, Herbal, Formulation, Stability, Cream

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